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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,283	12/31/2001	Douglas P. Brown	10158 (NCR.0068P2US)	1213
26890	7590 08/25/2005		EXAMINER	
JAMES M.		ALAM, SHAHID AL		
NCR CORPORATION 1700 SOUTH PATTERSON BLVD, WHQ4			ART UNIT	PAPER NUMBER
	DAYTON, OH 45479			
			DATE MAIL ED: 09/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/039,283	BROWN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shahid Al Alam	2162				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repleted in the provision of the period for reply specified above, the maximum statutory period from the period for reply within the set or extended period for reply will, by status and the period for reply will, by status and the period patent term adjustment. See 37 CFR 1.704(b).		nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>RCE on July 1, 2005</u> .						
2a) This action is FINAL . 2b) ⊠ Thi	<u> </u>					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1 – 8, 10 – 19, 21 – 28 and 30 - 32</u> is/are rejected.					
	7) Claim(s) <u>5,9,19,20,29 and 33</u> is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documen	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea	, ,,					
* See the attached detailed Office action for a lis	t of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)				
) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

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1. This action is in response to RCE filed on July 1, 2005.

2. Claims 1 - 33 are pending in this Office action.

Claim Objections

3. Claims 5, 9, 19, 20 and 29 are objected to because of the following informalities: It is unclear as to the meaning of the term "at least some of the following".
Examiner suggests amending these claims by "at least two or more of the following".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1 – 8, 10 – 19, 21 – 28 and 30 - 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Number 6,067,542 issued to Felipe Carino ("Carino") and in view of U.S. Patent Number 5,857,192 issued to Samuel Fitting (Fitting") and further in view of U.S. Patent Publication Number 2003/0016237 A1 issued to Neil Hickey ("Hickey").

With respect to claim 1, Carino teaches importing environment information of a target database system (column 3, lines 28 – 62), the environment information comprising random sample statistics of the target database system (column 14, lines 58 – column 15, line 9);

storing the random sample statistics in a storage location (column 3, lines 41 - 49 and column 18, lines 32 - 35); and

using the random sample statistics in performing query plan analysis for a given query in the test system (column 3, lines 41 - 49 and column 18, lines 32 - 35).

Carino does not explicitly teach importing information into a test system as claimed.

Fitting discloses claimed test system, where to retrieve information about product from the database, the controller of test system creates a request file and communicates it to the shared file directory of the shared resource manager (SRM) (see column 4, lines 16 – 26, see also abstract, column 1, lines 14 – 22, column 2, lines 6 – 18; Fitting).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine Fitting with Carino to permit bi-directional messaging between a test system and a database so as to allow the test system to retrieve product information, such as model number, from the database in substantially real-time and thereby, eliminating the need for information redundancy in the manufacturing system (column 1, lines 54 – 60; Fitting).

Carino and Fitting do not explicitly teach emulating the target database system as claimed.

Hickey teaches claimed emulating the target database system. Hickey teaches system for and method of emulating a Database4 System (see title, abstract, paragraph [0008, 0020]).

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine Carino and Fitting with Hickey to provides real time access to data in an existing database while using an existing database application containing business logic, and utilizes the existing error checking and error handling functionality of the application. To improves the performance and extends the useful life of the application, and is quickly implemented with minimal amount of training for the user and Obviates the need to recode the application to gain increased functionality and easily accommodates changes in the existing source application.

As to claim 2, importing the random sample statistics from a selected segment of the target database system (column 3, lines 28 – 62 and column 14, line 58 – column 15, line 9; Carino).

As to claim 3, the target database system comprises plural access modules, wherein importing the random sample; statistics comprises importing the random

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sample statistics associated with less than all of the access modules (column 7, lines 56 – 60; Carino).

As to claim 4, importing the random sample statistics associated with a randomly selected one or randomly selected ones of the access modules (column 16, lines 19 – 22; Carino).

As to claim 5, importing at least some of the following information: database name, base table name, number of rows in the base table, number of indexes for the base table, minimum row length in the base table, maximum row length in the base table, secondary index name, number of rows in a secondary index table, and average row size of the secondary index table (column 16, lines 15 – 50; Carino).

As to claim 6, importing the environment information of a target database system having plural access modules that manage concurrent access of plural portions of data stored in the target database system (column 2, lines 21 – 31; Carino).

As to claim 7, importing information pertaining to a configuration of the target database system (column 15, lines 6 – 9: Carino).

As to claim 8, importing cost-related information of the target database system (column 15, lines 3 – 9: Carino).

As to claim 10, emulating an environment of the target database system using the random sample statistics, wherein performing the query plan analysis comprises performing the query plan analysis in the emulated environment (column 18, lines 9 – 31; see also column 12, lines 24 – 34; Carino and paragraph [0080]; Hickey).

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As to claim 11, emulating the environment at one of plural emulation levels, the plural emulation levels comprising a system level and a user session level (column 18, lines 9 - 31; see also column 12, lines 24 - 34; column 16, lines 8 - 42 and column 17, lines 1 - 25; Carino).

As to claim 12, generating a full set of statistics from the random sample statistics column 15, lines 3 – 20; Carino).

As to claim 13, invoking an optimizer to use the full set of statistics to perform the query plan analysis (column 3, lines 41 – 49; Carino).

As to claim 14, using an SQL DIAGNOSTIC statement to identify random sample statistics to capture (column 14, lines 53 – 59; Carino).

As to claim 15, using another SQL DIAGNOSTIC statement to set random sample statistics in the storage location (column 14, lines 53 – 59; Carino).

Claims 16 – 19, 21, 22 and 32 are essentially the same as claims 1 – 8 and 10 - 15 except that it set forth the claimed invention as a test system rather than a method and rejected for the same reasons as applied hereinabove.

Claims 23 - 28 and 30 - 31 are essentially the same as claims 1 - 8 and 10 - 15 except that it set forth the claimed invention as an article rather than a method and rejected for the same reasons as applied hereinabove.

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Allowable Subject Matter

5. Claims 9, 20, 29 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahid Al Alam whose telephone number is (571) 272-4030. The examiner can normally be reached on Monday-Thursday 8:00 A.M.- 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shahid Al Alam Primary Examiner Art Unit 2162